

A SELF-ALIGNED NON-VOLATILE MEMORY CELL AND PROCESS FOR FABRICATION

Floating gate structures are disclosed that have a projection that extends away from the surface of a substrate. This projection may provide the floating gate with increased surface area for coupling the floating gate and the control gate. In one embodiment, the word line extends downwards on each side of the floating gate to shield adjacent floating gates in the same string. In another embodiment, a process for fabricating floating gates with projections is disclosed. The projection may be formed so that it is self-aligned to the rest of the floating gate.